

DESCRIPTION

Fail-Safe's MPWC series combines a multi-function, wall mounted fixture with contemporary styling. Through innovative features, the MPWC accommodates multiple applications throughout the healthcare environment. One fixture supplies the patient room with task lighting, offering practical solutions to the patient and medical staff for everyday tasks. The MPWC is separated into two compartments: up light for general ambient room lighting and down light for reading/direct task lighting to accommodate the needs of the patient or healthcare professional. The fixture is UL listed.

SPECIFICATION FEATURES

Application

The MPWC is designed for use in healthcare environments, specifically for use in patient rooms over beds to facilitate all of the tasks required by the patient and medical staff. The MPWC's aesthetics make it ideal for other applications such as over vanities, rest rooms, and hallways.

A ... Lens

Up light: .125" thick, prismatic K12 pattern, acrylic lens is standard (prisms on the inside for ease of cleaning). Down light: .125" thick, prismatic K12 pattern, acrylic lens is standard (prisms inside).

B ... Fasteners

Nickel-plated thumbscrews are standard (requires no tools to remove lens assembly).

C ... Construction

Outer housing is 18 gauge, die-formed, cold rolled steel with seam-welded ends. Back pan housing is 20 gauge, die formed cold rolled steel. Power tray and reflector are 20 gauge cold rolled steel.

D ... Lamps

T8 Linear Fluorescent
T5 HO Linear Fluorescent

E ... Ballast Options

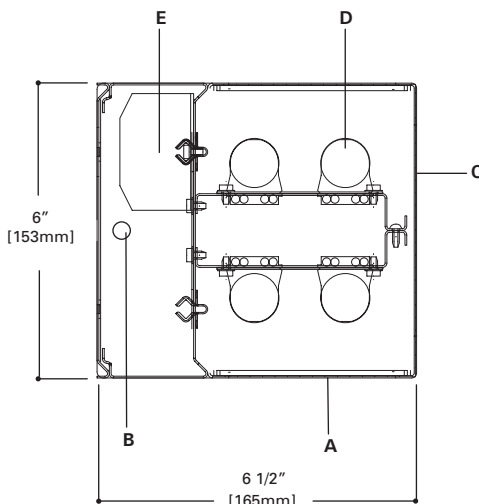
T8 Electronic Instant Start
T5 Electronic Programmed Start
T8 Magnetic-HPF

F ... Finish

High gloss white polyester powder coat finish is standard on exterior housing. A multistage cleaning and painting process is utilized. Interior reflector is high reflectance white, minimum reflectance 92%. Custom colors are available.

Labels

UL/cUL Listed for Damp Locations

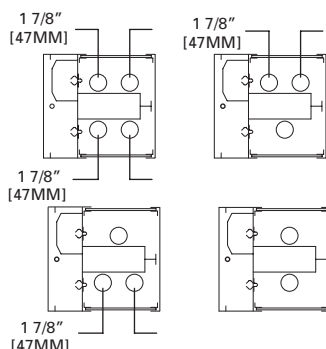


MPWC

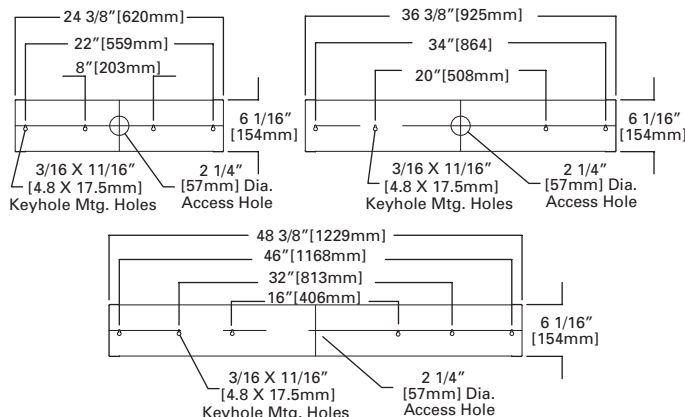
34W - 216W
Fluorescent

CONTEMPORARY
HEALTHCARE
WALL MOUNTED
LUMINAIRE

LAMP CONFIGURATIONS



MOUNTING DIMENSIONS



ENERGY DATA

Input Watts:

T5HO Fluorescent Lamps Electronic Ballasts*

- (2) 24W T5 HO Lamps: 54W
 - (3) 24W T5 HO Lamps: 79W
 - (4) 24W T5 HO Lamps: 104W
 - (2) 39W T5 HO Lamps: 80W
 - (3) 39W T5 HO Lamps: 127W
 - (4) 39W T5 HO Lamps: 174W
 - (2) 54W T5 HO Lamps: 124W
 - (3) 54W T5 HO Lamps: 182W
 - (4) 54W T5 HO Lamps: 240W
- *Energy Data calculated using 2 ballasts per each lamp configuration. (Programmed start, normal light output, average ballast factor 0.95 to 1.1)

T8 Fluorescent Lamps Electronic Ballasts*

- (2) 17W T8 Lamps: 40W
 - (3) 17W T8 Lamps: 54W
 - (4) 17W T8 Lamps: 68W
 - (2) 25W T8 Lamps: 54W
 - (3) 25W T8 Lamps: 74W
 - (4) 25W T8 Lamps: 94W
 - (2) 32W T8 Lamps: 64W
 - (3) 32W T8 Lamps: 90W
 - (4) 32W T8 Lamps: 116W
- *Energy Data calculated using 2 ballasts per each lamp configuration. (Instant start, normal light output, average ballast factor 0.9 to 1.0)

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Features, Catalog Logic and Options

Ballasts

Fixtures are supplied standard with electronic ballasts. Magnetic, energy saving ballasts are available with T8 lamps only (LEOC8). An optional radio interference filter (RIF) is commonly used with magnetic ballasts to reduce radio interference with sensitive equipment.

Circuitry

All individual input circuits will be supplied with a quick disconnect module (QDM) to facilitate ease of maintenance and installation. GCO and FNL options are commonly run on separate circuits. Each will be supplied with a QDM, separate from the primary lamp sources and will require additional switching and wiring by others. All primary lamp sources are wired onto the same circuit unless specified otherwise (See Switching Controls).

Switching Controls

No switching option specified implies the fixture will ship with input leads left unwired for switch wiring to be completed in field as desired.

PS4-4-position pull chain switching. All primary lamps wired in sequence by following: lower lamps on, upper lamps on, all lamps on, all lamps off. (120V only, brushed nickel finish, installed in center of unit on bottom of power tray).

PS1D-2 position pull chain switch, controls the bottom lamp compartment only. (120V only, brushed nickel finish, installed in center of unit on bottom of power tray). Upper lamp compartment is on a separate circuit to be wired and switched at wall or as desired.

LVCP-Low voltage controller, patient controlled. Mounted inside unit for patient control of all primary lamps-upper and lower lamp compartments. Wired in sequence for lower lamps on, upper lamps on, all lamps on, all lamps off. Includes 1/4" phone jack type receptacle centered in bottom of wire way for input control by others or may be used with accessory **MBC**-momentary button cord switch (See accessories).

LVCF-Low voltage controller, facility controlled. Mounted inside unit, controller is left unwired for specific wiring/control requirements of facility. Includes 1/4" phone jack type receptacle, centered in bottom of wire way for input control by others or may be used with accessory **MBC**-momentary button cord switch (See accessories).

Other Options

EBP-The emergency battery pack option is a good candidate for facilities that do not have emergency generator systems. Test switch and indicator light will be installed on top of unit in middle of the power tray. (Not available with all options, consult customer service).

FNL- Fluorescent night-light, 2-pin (G23 Base), 7 or 9w twin tube lamp installed in center of upper compartment of fixture, uses a magnetic ballast. FNL is wired on a separate circuit. (Lamps by others).

GCO-Grounded convenience outlet. White in color on units with white finish; black in color on all other finish options, wired on a separate circuit. (120V only, maximum 10 amps, installed on bottom right side facing unit; add "L" for installation on left side of unit, **GCOL**).

GLR-Fuse and holder, Wired to primary lamp circuit only. (Consult customer service for additional fusing options).

NRL-White LED nurses chart reading light. Directed so as not to discomfort the patient while awake or sleeping. Switched separately via rocker switch, both lamp and switch located on the bottom of the power tray. White in color on units with white finish; black in color on all other finish options (120V only, installed on either the right or left side, facing unit; add "R" for installation on right side of unit, **NRLR**; add "L" for installation on left side of unit, **NRL**).

RIF-Radio interference filter, for use with magnetic T8 ballast only. (1 per ballast). (Not available with all options, consult customer service).

SF1-Tamper-proof Torx™-head fasteners

DTP-Decorative Trim Panel. This option allows the user to specify a wide assortment of laminate patterns available from "Wilsonart® Laminate". The pattern is placed in the front panel of the MPWC. Can be matched to any interior decorating theme, furniture color or wood grain. Example: DTPWM-Decorative Trim Panel, Windsor Mahogany

Accessories

MBC-Momentary button cord switch. May be used with LVCP or LVCF options to control lamps. All units are wired at factory as specified per catalog logic (See Switching Controls).

VRSD-Torx™-head tamper-proof screwdriver (for use with SF1 option)

Maintenance

The MPWC is designed to facilitate ease of maintenance. Its three part assembly makes for efficient installation. No tools are required for relamping or substituting electrical power trays on standard fixtures. When maintenance is required, simply loosen the two end thumbscrews and slide the partial clamshell, front lens assembly forward and off. The lamps and power tray will now be accessible and can be removed by quarter-turn fasteners. This assembly hangs suspended on the back pan while it is easily disconnected via a quick disconnect power connector. Spare units can speed the maintenance process by easily substituting the power tray, thus causing less disruption in the room.

ORDERING INFORMATION

SAMPLE NUMBER: MPWC-2/232-120-EB82-PS4-GCO-NRLL

Product Family	Lamp Type	Voltage	Ballast	Switching Control Options	Options	
MPWC						
MPWC =Medical Patient Wall Contemporary	24" Nom. Length T8 Fluorescents 1/117=(2) 17W Lamps 1 Up, 1 Down 1/217=(3) 17W Lamps 1 Up, 2 Down 2/117=(3) 17W Lamps 2 Up, 1 Down 2/217=(4) 17W Lamps 2 Up, 2 Down T5HO Fluorescents 1/124=(2) 24W Lamps 1 Up, 1 Down 1/224=(3) 24W Lamps 1 Up, 2 Down 2/124=(3) 24W Lamps 2 Up, 1 Down 2/224=(4) 24W Lamps 2 Up, 2 Down 36" Nom. Length T8 Fluorescents 1/125=(2) 25W Lamps 1 Up, 1 Down 1/225=(3) 25W Lamps 1 Up, 2 Down 2/125=(3) 25W Lamps 2 Up, 1 Down 2/225=(4) 25W Lamps 2 Up, 2 Down T5HO Fluorescents 1/139=(2) 39W Lamps 1 Up, 1 Down 1/239=(3) 39W Lamps 1 Up, 2 Down 2/139=(3) 39W Lamps 2 Up, 1 Down 2/239=(4) 39W Lamps 2 Up, 2 Down	48" Nom. Length T8 Fluorescents 1/132=(2) 32W Lamps 1 Up, 1 Down 1/232=(3) 32W Lamps 1 Up, 2 Down 2/132=(3) 32W Lamps 2 Up, 1 Down 2/232=(4) 32W Lamps 2 Up, 2 Down T5HO Fluorescents 1/154=(2) 54W Lamps 1 Up, 1 Down 1/254=(3) 54W Lamps 1 Up, 2 Down 2/154=(3) 54W Lamps 2 Up, 1 Down 2/254=(4) 54W Lamps 2 Up, 2 Down	120=120V 277=277V 347=347V	2 Electronic Ballasts are Standard EB82=T8 EB52=T5 LEOC8=Magnetic energy savings ballast (T8 only, min. 2 per fixture) 1	PICK ONE BELOW or (if no switching option is specified, fixture ships with leads left unwired for switch wiring completed in field) PS4=4 position pull chain 2 PS1D=2 position pull chain (controls bottom lamp only, upper lamps on separate circuit) 2 LVCP=Low voltage controller, patient controlled (patient controls all lamps) 1 LVCF=Low voltage controller, facility controlled as needed 1	EBP=Emergency battery pack 1 FNL=Fluorescent Night Light, 2-pin (G23 Base), 7 or 9w twin tube (Lamps by others). LNL= LED Night Light (50,000 hrs.) provided by Cooper GCO=Grounded Convenience Outlet, right side mounted facing unit 2 GCOL=Grounded Convenience Outlet, left side mounted facing unit 2 GLR=Fuse and holder NRLR=White LED Nurse Chart Reading Light, right side mounted facing unit 2 NRLL=White LED Nurse Chart Reading Light, left side mounted facing unit 2 RIF=Radio Interference Filter. For use with T8 magnetic ballast only (1 per ballast) 1 SFP=Machine Screws, Philips Head Natural Stainless Steel SF1=Tamper-proof Torx™ -Head Fasteners DTP__=Decorative Trim Panel (specify from choices available below or supply sample) Example: DTPBO=Decorative Trim Panel Bannister Oak BO=Bannister Oak WC=Wild Cherry LM=Limber Maple WM=Windsor Mahogany NT=Nepal Teak
					Finish Options (If not specified, fixture ships with standard high gloss white finish) MF=Metallic Finish DP=Dark Platinum IH=Almond Finish Custom Colors are available (specify or supply sample, requiring a flat rate surcharge)	

Finish Options

(If not specified, fixture ships with standard high gloss white finish)
MF=Metallic Finish
DP=Dark Platinum
IH=Almond Finish
 Custom Colors are available (specify or supply sample, requires a flat fee, consult customer service)
SSN=Stainless Steel Natural (brushed finish)
SSP=Stainless Steel Painted (standard high gloss white or specify finish).
 (i.e. **SSP-DP**)

Accessories (order separately)

MBC=Momentary button cord switch. May be used with LVCP or LVCF options to control lamps. (See Switching Controls).
VRSD=Tamper-proof Torx™ -Head Screwdriver

Notes:

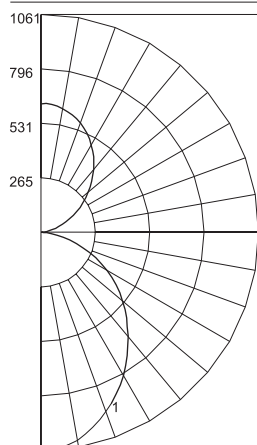
For additional options, consult your Cooper Lighting Representative.
 Specifications and dimensions subject to change without notice.

¹ Due to internal size limitations, some configurations and options are not available with other options. Consult customer service.
² 120V only

Special Claims: When mounting, installer must verify fixture weight in selecting proper anchoring; when not anchoring directly to stud. Refer to installation instructions.

The depicted luminaire is not rated for hazardous locations or adverse environments. Illustrations and photographs depicted in this literature are representative examples only. Consult the appropriate certified and licensed lighting engineering and installation professionals for site-specific applications of products and codes.

Candlepower Distribution



Maximum Candela = 1061 - Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
 # 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)

Test No.168P167

MPWC-1/232-120-EB82-LVCP-GCO-NRLL

Lamp=(3) Lumens=2800

Spacing Criteria

(0-180)=1.18 (90-270)=1.14

Efficiency=49.4%

Average Luminance

Deg.	0°	45°	90°
45	8352	8243	7914
55	7815	7799	7343
65	7148	7194	6483
75	5948	5873	5162
85	3888	3666	3222

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	779.2	9.3	18.8
0-40	1243.9	14.8	30.0
0-60	2115.08	25.2	51.0
0-90	2620.06	31.2	63.1
90-180	1530.92	18.2	36.9
0-180	4150.98	49.4	100.0

Coefficient of Utilization

rc rw	80%				70%			50%		30%		10%		0%
	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	54	54	54	54	51	51	51	45	45	39	39	34	34	31
1	50	48	46	44	45	43	42	39	37	34	33	30	29	26
2	45	42	39	36	39	36	34	35	31	30	27	26	24	22
3	41	37	33	30	35	31	29	30	26	27	23	23	21	19
4	38	32	28	25	31	27	24	27	22	24	20	21	18	16
5	35	29	25	22	27	24	21	24	19	21	17	19	15	14
6	32	26	22	19	25	21	18	22	17	19	15	17	14	12
7	30	24	20	17	22	19	16	20	15	18	13	16	12	11
8	28	21	18	15	20	17	14	18	13	16	12	14	11	10
9	26	20	16	13	19	15	13	17	12	15	11	13	10	09
10	24	18	14	12	17	14	12	15	11	14	10	12	9	08

rc = Ceiling reflectance, rw = Wall reflectance, RCR = Room cavity ratio

CU Data Based on 20% Effective Floor Cavity Reflectance.